

CLAIMS

1. A nematocidal protein which comprises the sequence shown in SEQ ID NO: 1
- 5 2. A nematocidal protein having at least 70% identity to a protein as claimed in claim 1.
3. A nematocidal protein which comprises the protein of claim 1 or claim 2 wherein the N-terminal methionine residue has been cleaved.
- 10 4. A polynucleotide which encodes a protein as claimed in claim 1 or claim 2.
5. The polynucleotide as claimed in claim 4 which comprises sequence shown in SEQ ID NO: 2.
- 15 6. A polynucleotide which is the complement of one which hybridises to a sequence as defined in claim 5 under stringent conditions and wherein said polynucleotide encodes a protein which is nematocidal.
7. A construct comprising the polynucleotide of any one of claims 4 to 6.
- 20 8. A construct as claimed in claim 7 wherein the polynucleotide is operably linked to a transcription initiation region and a transcriptional termination region.
9. A construct as claimed in claim 8 which further comprises a selectable marker.
- 25 10. A host cell comprising a polynucleotide as claimed in any one of claims 4 to 6, or a construct as claimed in any one of claim 7 to 9.
11. A transgenic plant comprising a polynucleotide as claimed in any one of claims 4 to 6
- 30 or a construct as claimed in any one of claims 7 to 9.
12. A method of providing a plant or a plant part with a nematocidal protein comprising:

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- a) inserting into the genome of the plant or of plant material a polynucleotide as claimed in any one of claims 4 to 6, or a construct as claimed in any one of claims 7 to 9;
- b) regenerating plants or plant parts therefrom; and
- 5 c) selecting those plants or plant parts having said protein.

13. Plants or plant parts obtained according to the method of claim 12.

- 10 14. Plants or plant parts as claimed in claim 13 which comprise a further agronomic trait selected from the group consisting of:
- a) herbicide resistance;
 - b) insect resistance;
 - c) fungus resistance;
 - d) nematode resistance;
 - 15 e) altered stress tolerance;
 - f) altered yield; and
 - g) altered nutritional content.

- 20 15. The use of a polynucleotide as claimed in any one of claims 4 to 6 or a construct as claimed in any one of claims 7 to 9 in a method of producing plants which are resistant and/or tolerant to nematodes.

- 25 16. The use of a protein as claimed in any one of claims 1 to 3 as an active ingredient in the production of a nematocide.

17. A method of controlling nematodes comprising providing at a locus where said nematodes feed a protein according to any one of claims 1 to 3.

- 30 18. A composition comprising a nematocidally effective amount of at least one protein as claimed in any one of claims 1 to 3 and an agriculturally acceptable carrier and/or a diluent and/or a nematode attractant.